



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 199484

TO: Bao-Qun Li
Location: rem/3c18/3d24
Art Unit: 1648
Wednesday, August 23, 2006
Case Serial Number: 09/587653

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518 *BOB*

barbara.obryen@uspto.gov

Search Notes

STIC-Biotech/ChemLib

~~199484~~ 199484

Fr m: Li, Bao-Qun
Sent: Thursday, August 10, 2006 9:16 AM
To: STIC-Biotech/ChemLib
Subject: RE:

The corrent number is 09/587,653.Thank you very much.

-----Original Message-----

From: STIC-Biotech/ChemLib
Sent: Thursday, August 10, 2006 9:15 AM
To: Li, Bao-Qun
Subject: FW:

Please change the serial number. Linda

-----Original Message-----

From: Hale, Mary
Sent: Thursday, August 10, 2006 9:04 AM
To: STIC-Biotech/ChemLib
Subject: FW:

Hi Linda,

Please log this in as a search and ask Deirdre to process

-----Original Message-----

From: Li, Bao-Qun
Sent: Thursday, August 10, 2006 6:36 AM
To: Hale, Mary
Subject:

Mary: I need to do one sequence alingment of SEQ ID No: 2 of application 09/587,650 with genbank accession number U22304. Can you help me to find one searcher to put them together or I need to file a sequence search request. Is there anyway that I can do it by myself, because I need it badly. Thank you.

Bao Qun Li M.D
TC 1600
Art Unit 1648
Tel. 517-272-0904
REM, 3C18
Rm. 3D24

8/10/2006

GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: August 23, 2006, 14:17:07 ; Search time 23 Seconds
(without alignments)
7.473 Million cell updates/sec

Title: US-09-587-653B-2-COPY
Perfect score: 9399
Sequence: 1 accacacacaccctccagcttg.....ccgcctcggaattaaacac 9399

Scoring table: IDENTITY_NUC
Gap 10.0 , Gapext 0.5

Searched: 1 segs, 9143 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : u22304.gb_v1:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	9061.8	96.4	9143	1	HGU22304
2	31	0.3	9143	1	HGU22304

ALIGNMENTS

RESULT 1
LOCUS HGU22304 9143 bp RNA linear VRL 12-APR-1995
DEFINITION Hepatitis GB virus B polypeptide complete genome.
ACCESSION U22304
VERSION U22304.1 GI:765144

KEYWORDS
SOURCE Hepatitis GB virus B
ORGANISM Hepatitis GB virus B
VIRUSES; ssRNA positive-strand viruses, no DNA stage; Flaviviridae.

REFERENCE
AUTHORS Simons,J.N., Pilot-Matias,T.J., Leary,T.P., Dawson,G.J.,
Desai,S.M., Schlauder,G.G., Muerhoff,A.S., Erker,J.C., Buljck,S.L.,
Chalmers,M.L., van Sant,C.L. and Mushahwar,I.K.
Identification of two flavivirus-like genomes in the GB hepatitis agent Proc. Natl. Acad. Sci. U.S.A. 92 (8), 3401-3405 (1995)

TITLE
JOURNAL PUBMED
REFERENCE 7724574
AUTHORS 2 (bases 1 to 9143)
JOURNAL Simons,J.N.
TITLE Direct Submission
JOURNAL Submitted (06-MAR-1995) John N. Simons, Experimental Biology Department, Abbott Laboratories, 1401 Sheridan Rd., North Chicago, IL 60064, USA

FEATURES
SOURCE Location/Qualifiers
1..9143

CDS

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QY	121	GTAAGCGGCGGAGACTCAGTACGCTGCTGATGACCAAGCGCAAGCTTAGCTGATGC	180

CDS

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DB	61	CAGGCGCTGGGAGATTTCCCTCCGCTCTGACAGAGGCTGAGACCAACCTTAGAT	120
QY	121	GTAAGCGGCGGAGACTCAGTACGCTGCTGATGACCAAGCGCAAGCTTAGCTGATGC	180

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CDS

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QY	61	CAGGCGCTGGGAGATTTCCCTCCGCTCTGACAGAGGCTGAGACCAACCTTAGAT	120
DB	61	CAGGCGCTGGGAGATTTCCCTCCGCTCTGACAGAGGCTGAGACCAACCTTAGAT	120
QY	121	GTAAGCGGCGGAGACTCAGTACGCTGCTGATGACCAAGCGCAAGCTTAGCTGATGC	180

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DB	1	ACCAAAACACCTCCAGTTGTTTACACTCCGCTAGGAATGCTCTCGAGACACCCCCCTAG	60
QY	61	CAGGCGCTGGGAGATTTCCCTCCGCTCTGACAGAGGCTGAGACCAACCTTAGAT	120
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CDS

CDS

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Query Match

Beat Local Similarity 99.6% Pred. No. 0/

Matches 3096, Conservative 0/ Mismatches 37/ Indels 4/ Gaps 11/

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DB	1	ACCAAAACCTCCAGTTGTTTACACTCCGCTAGGAATGCTCTCGAGACACCCCCCTAG	60
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DB	61	CAGGCGTGGGAGATTTCCCTCGCCCTCTGACAGAGCGTGGAGCCAAACCACTTAAGAT	120
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361 TGGGATAGGTGGGGTTAGCCATCACTACCGTACCTGATAGGGGTCTTGCGAGGGGAT 420
361 TGGGATAGGTGGGGTTAGCCATCACTACCGTACCTGATAGGGGTCTTGCGAGGGGAT 420
421 CTGGAGTCTCTAGACCGGTAGCAATGCTGTATTTCTACTCAACAAAGTCCCTGATCC 480
421 CTGGAGTCTCTAGACCGGTAGCAATGCTGTATTTCTACTCAACAAAGTCCCTGATCC 480
481 TGGCGCCAGAAACGCGCAAGAACAGCAGCAGGCTTCATATCTGTGTCAATTAAC 540
481 TGGCGCCAGAAACGCGCAAGAACAGCAGCAGGCTTCATATCTGTGTCAATTAAC 540
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541 ATCGTTGAAGAGGGAACAAGAGCAAGCGCAAGTCAAGCGGAGTCTGGGCTCGTAA 600
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601 TTACAAATATGCTGATATCCATGATGCTTGACAGATATGCTCAGGCTGTTGGCAGC 660
661 TCAATGTTGGGAGAGCCCAAGACCTCGCATATATCTGCAATCTTGGAATCTTTCGGA 720
661 TCAATGTTGGGAGAGCCCAAGACCTCGCATATATCTGCAATCTTGGAATCTTTCGGA 720
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721 TTACCCCTTGGGAGTGAATGATGATTAACAATCACTCAACCTCTAGTAAAGCCCGTGGT 780
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781 GGCAGAGCGGTCTTCGACCAATCTGCGCAGATAGTACGCTTGCGAGAGATGAGTCAA 840
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841 CTGGGCTATCTGTTGGTTCGGTTCACCTTTTGGTATGTCTGCTATCTTTGGGCTG 900
841 CTGGGCTATCTGTTGGTTCGGTTCACCTTTTGGTATGTCTGCTATCTTTGGGCTG 900
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901 TCCCTGATAGGAGGCGGCGGTCACTGACCGAGACAATAATCAAAATCCGACCAATG 960
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1021 TGTGATCTGTGCGGACAGATGCTGGGTTCCGCGCAATCCGTACATCTCAACCCCTCAA 1080
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1141 GACCTGAGACGCTTGACATATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
1201 GCTTGTCAAGGCACTGAGCTTATTCATATGACTCAATGAACCTGATCTTGTATCTGGA 1260
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2221 CAGCAAGTATCTTATTTTACCTTCTGTATCTTGTATCTTGTATGATGATGATGATGATGATG 2280
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2281 TGGTAAACCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2340

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Db 2341 TTGTCTAAAGCTCAAGTAGCTCTTTGCTTGAATTTCTTCACTGTGCTATCTCG 2400
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Db 2401 CTGCAAGGCTAAGTATGCTGCTTTAGGGTTTGCCATGAGGCTGCGGCTTCCCT 2460
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Db 2521 AGTGGCAGGGTTAGTTTGTGGCCGGCCGTACCGTGTCAACCCCATAGCTCTGTGT 2580
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Db 2821 TGTGCTGTGTTGTTCCCGGTGCGACATATGACCGGCTGATGCTTTCTGTGTGTGCA 2880
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QY 3721 GATGTTCAACGCTGTAGAAATTTCTGGCGGTTCAAGTCAATGATTAAGGTTAGCCGTT 3780
Db 3721 GATGTTCAACGCTGTAGAAATTTCTGGCGGTTCAAGTCAATGATTAAGGTTAGCCGTT 3780
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QY 4501 TACAGGGTACATGATGATCTTGTATTCGTGTATGACTGACGCTTATGATGAAGGCAAC 4560

Db	4501	TACGGGGTACCTGCTGACTTGAATTCGGGTATGATGTCAGCTCAATGCTAAAGGCAAC	4560
OY	4561	ATGCACTATGTAACCTTGACCTTACCTTCAACATAGGATGTCGTGTGCGGGGTTTCAAG	4620
Db	4561	ATGCACTATGTAACCTTGAACCTTACCTTCAACATAGGATGTCGTGTGCGGGGTTTCAAG	4620
OY	4621	AATAGTTAAAGGCGAGCGTAGGGGCGGCAAGCGCTGTGGAGAGCTGGCAATATCTACTA	4680
Db	4621	AATAGTTAAAGGCGAGCGTAGGGGCGGCAAGCGCTGTGGAGAGCTGGCAATATCTACTA	4680
OY	4681	TGTAGAGCGGAGGTGTACCCCTTGGGGTAAAGTTCCTGAATGCAACAATGTGTAAAGCTT	4740
Db	4681	TGTAGAGCGGAGGTGTACCCCTTGGGGTAAAGTTCCTGAATGCAACAATGTGTAAAGCTT	4740
OY	4741	CGACGAGCGCAAGGCAATGATATGTTGTTCATCAACAGAACTCAACTATTCGTGACAC	4800
Db	4741	CGACGAGCGCAAGGCAATGATATGTTGTTCATCAACAGAACTCAACTATTCGTGACAC	4800
OY	4801	CTATCGACCCCAACCTGTGGTTACTGTGCAATAGAGCAAAATTTGACAGATGGGCTGATCT	4860
Db	4801	CTATCGACCCCAACCTGTGGTTACTGTGCAATAGAGCAAAATTTGACAGATGGGCTGATCT	4860
OY	4861	CTTTTCTATAGTCAACCCCAACTTCATTTGTCAATATCTGCAAAAAGAACTGTGTACAA	4920
Db	4861	CTTTTCTATAGTCAACCCCAACTTCATTTGTCAATATCTGCAAAAAGAACTGTGTACAA	4920
OY	4921	TTATGTTTGTGTGACTGAGGCCAACTACACATGTGATCAGATATGGCTATAGCTGTCC	4980
Db	4921	TTATGTTTGTGTGACTGAGGCCAACTACACATGTGATCAGATATGGCTATAGCTGTCC	4980
OY	4981	CAATGACGCAACAAGGTGGCAGAGAGCGCGCTTGTGGAAAAAACCCTTGTGGGTTCTGTG	5040
Db	4981	CAATGACGCAACAAGGTGGCAGAGAGCGCGCTTGTGGAAAAAACCCTTGTGGGTTCTGTG	5040
OY	5041	GCGCTTGGACGCGCTGACGCTGTCTGTGCCCAGAGCCGACGAGGTATCAGATACCA	5100
Db	5041	GCGCTTGGACGCGCTGACGCTGTCTGTGCCCAGAGCCGACGAGGTATCAGATACCA	5100
OY	5101	AATGTGCTTCACTGAAGTCATATCTTTCGGGACAGCGCACTCGCTGTGGCGTTGAGT	5160
Db	5101	AATGTGCTTCACTGAAGTCATATCTTTCGGGACAGCGCACTCGCTGTGGCGTTGAGT	5160
OY	5161	GCGTATGCTTATCTAGCCATTTGACATCTTTTGGCGCACTTGTGTGCGGCTTGTCTGTC	5220
Db	5161	GCGTATGCTTATCTAGCCATTTGACATCTTTTGGCGCACTTGTGTGCGGCTTGTCTGTC	5220
OY	5221	TATTCATCATGTCCTTACCGGTGTACTGTGTGCCCCAGTGGTTGACGAAGAAATCGT	5280
Db	5221	TATTCATCATGTCCTTACCGGTGTACTGTGTGCCCCAGTGGTTGACGAAGAAATCGT	5280
OY	5281	GGAAGAGTGTGATCATATTCCTCCCTGGAAGCCAAATGTGTCTGCAATCGATAAGCTGAA	5340
Db	5281	GGAAGAGTGTGATCATATTCCTCCCTGGAAGCCAAATGTGTCTGCAATCGATAAGCTGAA	5340
OY	5341	GAGTACATATCAACAACAATAGCTCTTTCAATGGAACCGGCTTGAAGAACTTAAAC	5400
Db	5341	GAGTACATATCAACAACAATAGCTCTTTCAATGGAACCGGCTTGAAGAACTTAAAC	5400
OY	5401	CTTTCTTGGGCTCATGACGCTACAAATCCTTGCTATCAATAGATATTCGTGTGTTAGT	5460
Db	5401	CTTTCTTGGGCTCATGACGCTACAAATCCTTGCTATCAATAGATATTCGTGTGTTAGT	5460
OY	5461	CACCTTACCTGACAAATCCCTTGTGCAATGATGCTGTTTCTTCAATTTGGGGATTAATCAC	5520
Db	5461	CACCTTACCTGACAAATCCCTTGTGCAATGATGCTGTTTCTTCAATTTGGGGATTAATCAC	5520
OY	5521	CCCACTACTCAAGAATCAAAATGTCCTGTCAATTAATTTGGAAGCGCAATTCGCTCCA	5580
Db	5521	CCCACTACTCAAGAATCAAAATGTCCTGTCAATTAATTTGGAAGCGCAATTCGCTCCA	5580
OY	5581	GCTTACAGACGCTAGAGCGCACTGACGTTCAATATGACCGGGGCTGCGGAAACAGCTT	5640

Db	5581	GCCTTACAGACGCTAAGAGGCGCACTGGGCGTTCAAGTAAGTGGCCGCGGAGTGGCGGAAACAGCTCT	5544
Qy	5541	TGCTACATGCAATTCGGTGGGTTTTGTCTTTGACATGCTAAGCGGCTATGCTGCGGCTC	5700
Db	5641	TGGTACATGCAATTCGGTGGGTTTTGTCTTTGACATGCTAAGCGGCTATGCTGCGGCTC	5700
Qy	5701	ATCCACGTGCTGCTGACATTTTAAATGCTTGAATGGGGTAGTGGCCCATATGATCAAGCT	5760
Db	5701	ATCCACGTGCTGCTGACATTTTAAATGCTTGAATGGGGTAGTGGCCCATATGATCAAGCT	5760
Qy	5761	TGCTGTTTAACTCTACTCCGCGTTCAATCCGCGCGAGAGTGTGGGCGTCTTGTCAAG	5820
Db	5761	TGCTGTTTAACTCTACTCCGCGTTCAATCCGCGCGAGAGTGTGGGCGCTTGTCAAG	5820
Qy	5821	TTGTGCAATGTTTGTCTTTGACAAACAGAGGGCCAGATCACTGGGCCCAACAGACTTCTTAC	5880
Db	5821	TTGTGCAATGTTTGTCTTTGACAAACAGAGGGCCAGATCACTGGGCCCAACAGACTTCTTAC	5880
Qy	5881	TATGCTTGTGAGAGCAACCTGTAAATGATTAATGATTAATGGCCATGCTGACATCCG	5940
Db	5881	TATGCTTGTGAGAGCAACCTGTAAATGATTAATGATTAATGGCCATGCTGACATCCG	5940
Qy	5941	CAGGAAGTACTGSGGCAATCTGAGGAGCTACCCCTGAGAGTCAATATCAGCTTGCAT	6000
Db	5941	CAGGAAGTACTGSGGCAATCTGAGGAGCTACCCCTGAGAGTCAATATCAGCTTGCAT	6000
Qy	6001	CCGTTGGCTCCACACCCCGACGAGAGATGATTCGGGCTCAATGCTTGGGGTCTAGAGAT	6060
Db	6001	CCGTTGGCTCCACACCCCGACGAGAGATGATTCGGGCTCAATGCTTGGGGTCTAGAGAT	6060
Qy	6061	TTGGCAGTATGTCGCAATTTCTTGTGATTTGCTTTAATGTCTTTAAAGCTGGAAGTTCA	6120
Db	6061	TTGGCAGTATGTCGCAATTTCTTGTGATTTGCTTTAATGTCTTTAAAGCTGGAAGTTCA	6120
Qy	6121	GAGCAGGTTTAACTTCCTGGTGTCTCTTCTTACAGCTGCAGAAAGGGGTTCAGAGGCGC	6180
Db	6121	GAGCAGGTTTAACTTCCTGGTGTCTCTTCTTACAGCTGCAGAAAGGGGTTCAGAGGCGC	6180
Qy	6181	CTGATATGATCAGGTATGCTCCAGACACGCTGTCCATGCGGTCTGAACCTCATCTTTTC	6240
Db	6181	CTGATATGATCAGGTATGCTCCAGACACGCTGTCCATGCGGTCTGAACCTCATCTTTTC	6240
Qy	6241	TGTTGAGAAATGTTTGGAAAATCTTTACAAAGAACCCAGAACTTGTCTTAAATTAATGAG	6300
Db	6241	TGTTGAGAAATGTTTGGAAAATCTTTACAAAGAACCCAGAACTTGTCTTAAATTAATGAG	6300
Qy	6301	AGGGGCTGTTCAGTCAACGCTAGGCGTGTGGGTCCGCTAGACCCGAACTGAATYG	6360
Db	6301	AGGGGCTGTTCAGTCAACGCTAGGCGTGTGGGTCCGCTAGACCCGAACTGAATYG	6360
Qy	6361	GACTAGTCTTGTGCTCAATTATGCGTTAGGGACTACTTAAATATAGAAAATGAGAGA	6420
Db	6361	GACTAGTCTTGTGCTCAATTATGCGTTAGGGACTACTTAAATATAGAAAATGAGAGA	6420
Qy	6421	TCACAATTTTGTTCACAGATATCTCTCCAAATGTCTGTTTACCCAGGTGCCCCCAAC	6480
Db	6421	TCACAATTTTGTTCACAGATATCTCTCCAAATGTCTGTTTACCCAGGTGCCCCCAAC	6480
Qy	6481	CTTGAAGACTGAGGCGCGTGAACGGGTACAGGTTACAGGTTATCTAAGGTAGCCCAAC	6540
Db	6481	CTTGAAGACTGAGGCGCGTGAACGGGTACAGGTTACAGGTTATCTAAGGTAGCCCAAC	6540
Qy	6541	AACCTCCTTGAAGCAATCTGCTGTGCTGTTACGGTCTGACGGTAAAGGTTAAATCTGTTAA	6600
Db	6541	AACCTCCTTGAAGCAATCTGCTGTGCTGTTACGGTCTGACGGTAAAGGTTAAATCTGTTAA	6600
Qy	6601	GCTTCCCTTCGCGCTTGAACGTTCAACAACCTGTGTGCGCATGCACTTAAATTTGCGTGA	6660
Db	6601	GCTTCCCTTCGCGCTTGAACGTTCAACAACCTGTGTGCGCATGCACTTAAATTTGCGTGA	6660
Qy	6661	TGCATCTTGAAGCAATGATCTGTAAATTTCCAAACAACAACCTCTATGTATGAAGCGCGAGT	6720
Db	6661	TGCATCTTGAAGCAATGATCTGTAAATTTCCAAACAACAACCTCTATGTATGAAGCGCGAGT	6720

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Db 7201 TTTCACCTGATCAGGCCCCCGCAAAAGCGCTTCAAAAAAGAGTTGGAGAAAGTGAAT 7260
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Db 7261 TTTCGTCAGCATGAGCTACCTTGAACCGAGCTGTATGACTTCAAACTGCTTCAAAAGT 7320
QY 7321 TCTGTCTGCAACTGCGGGCATGCACTAGTGTGTTCTTCAAAACAATCATGTGTATATGT 7380
Db 7321 TCTGTCTGCAACTGCGGGCATGCACTAGTGTGTTCTTCAAAACAATCATGTGTATATGT 7380
QY 7381 GACTGAGCGCGGAGTGGGAGCTTGAAGAAACAAGAAAGTCACTATTATAGCAACTCT 7440
Db 7381 GACTGAGCGCGGAGTGGGAGCTTGAAGAAACAAGAAAGTCACTATTATAGCAACTCT 7440
QY 7441 GTTCCCCCATCATATCAACAAGCAAGTATGAGTGTGCTAAGAAAAGCTTCAAAAGTTGT 7500
Db 7441 GTTCCCCCATCATATCAACAAGCAAGTATGAGTGTGCTAAGAAAAGCTTCAAAAGTTGT 7500
QY 7501 CCGGTGTCATGTGGGACTATGATGAAGTACAGCTCAACGCTCTTAAAGTGTCTAAGTC 7560
Db 7501 CCGGTGTCATGTGGGACTATGATGAAGTACAGCTCAACGCTCTTAAAGTGTCTAAGTC 7560
QY 7561 CCAACATCATGCGGCTTCCGGGAGCATGATGTTGTTCTGAGAGCGCCGAAAGGCTGTTCT 7620
Db 7561 CCAACATCATGCGGCTTCCGGGAGCATGATGTTGTTCTGAGAGCGCCGAAAGGCTGTTCT 7620
QY 7621 GGAATTCAGAAAGTGTGTGAGGCAAGTGAAGTACCGAGTCAATTATCCGCAAACTGTAT 7680
Db 7621 GGAATTCAGAAAGTGTGTGAGGCAAGTGAAGTACCGAGTCAATTATCCGCAAACTGTAT 7680
QY 7681 AGTTTCAAAAGAGAGGTCTTGTGAAAGACCCCGCAAGAAACAAGAAAGAGAGAGAG 7740
Db 7681 AGTTTCAAAAGAGAGGTCTTGTGAAAGACCCCGCAAGAAACAAGAAAGAGAGAGAG 7740
QY 7741 GCTTATCTGTATCCCACTTGAATGAGATGTGTTGAGAGATGTACTACGTCAGGT 7800
Db 7741 GCTTATCTGTATCCCACTTGAATGAGATGTGTTGAGAGATGTACTACGTCAGGT 7800

QY 7801 TGCTCTGACGTAGTAAAGCTGTCAATGAGAGATGCGTACGGGTTGTGATCCAGCTAC 7860
Db 7801 TGCTCTGACGTAGTAAAGCTGTCAATGAGAGATGCGTACGGGTTGTGATCCAGCTAC 7860
QY 7861 CCGGTGTCAGGTCTGTGTGTGATGATGTGTGATCCCGGATGCGAGTGGAGCCATAGGATAC 7920
Db 7861 CCGGTGTCAGGTCTGTGTGTGATGATGTGTGATCCCGGATGCGAGTGGAGCCATAGGATAC 7920
QY 7921 AGTGTGTTTGAACAGTACATCAACCCGAGATATCATGATGAGACAGACATCTATC 7980
Db 7921 AGTGTGTTTGAACAGTACATCAACCCGAGATATCATGATGAGACAGACATCTATC 7980
QY 7981 AGCAGCTAAACTCAGTACCAACCGAGCTGGCATTCACACATTCGAGGCAAGTTATA 8040
Db 7981 AGCAGCTAAACTCAGTACCAACCGAGCTGGCATTCACACATTCGAGGCAAGTTATA 8040
QY 8041 CGCTGGAGAGCCGATATGCTTATGATGTCGAGAGATGAGATATGATGATGATGTC 8100
Db 8041 CGCTGGAGAGCCGATATGCTTATGATGTCGAGAGATGAGATATGATGATGATGTC 8100
QY 8101 TTCCGGCGTCTATATCTACCTCAAGTTCCAAAGTTTGAACCTGCTGCTGAGAGTAAATGC 8160
Db 8101 TTCCGGCGTCTATATCTACCTCAAGTTTGAACCTGCTGCTGAGAGTAAATGC 8160
QY 8161 TGCAGCCGAAACAGGCTGGCATGAAAGAACCTCGCTTCTTATTTGCGGCGATGATTCAC 8220
Db 8161 TGCAGCCGAAACAGGCTGGCATGAAAGAACCTCGCTTCTTATTTGCGGCGATGATTCAC 8220
QY 8221 CGTAAATTGGAAGGCGCGGAGCAGATGACAGCAAAAGCAATGAGTGTCTTGTGAC 8280
Db 8221 CGTAAATTGGAAGGCGCGGAGCAGATGACAGCAAAAGCAATGAGTGTCTTGTGAC 8280
QY 8281 CTGATGAAAGGTGATGGGTGACCAACAAGATGTGTCTCAACCCAAATCAGTTTGA 8340
Db 8281 CTGATGAAAGGTGATGGGTGACCAACAAGATGTGTCTCAACCCAAATCAGTTTGA 8340
QY 8341 AGAATTAAATCATGCTCATCAAAATGTTACTGTGAATTAACAAAAGTGGCAAGCTTGA 8400
Db 8341 AGAATTAAATCATGCTCATCAAAATGTTACTGTGAATTAACAAAAGTGGCAAGCTTGA 8400
QY 8401 CTACTTCTTCAAGAGATCCTCGTATCCCGCTGGGAGGTCCTGCGGAGGCTGCGG 8460
Db 8401 CTACTTCTTCAAGAGATCCTCGTATCCCGCTGGGAGGTCCTGCGGAGGCTGCGG 8460
QY 8461 ATACAAACCCAGTCTCGTGGATTTGGGATCTAATCATCATCAACCAATGTTTGGGT 8520
Db 8461 ATACAAACCCAGTCTCGTGGATTTGGGATCTAATCATCATCAACCAATGTTTGGGT 8520
QY 8521 TAGCCGTGTGTGCTGTCAATTCATGAGCAGATGCTCTTGAAGCAAACTTCCGA 8580
Db 8521 TAGCCGTGTGTGCTGTCAATTCATGAGCAGATGCTCTTGAAGCAAACTTCCGA 8580
QY 8581 GACGCTGACCTTGAACGTGTATGAGAAATAATTAACGTGTCTGTGAAGATTCGCCAG 8640
Db 8581 GACGCTGACCTTGAACGTGTATGAGAAATAATTAACGTGTCTGTGAAGATTCGCCAG 8640
QY 8641 CATCATGCTGTGTGACAGGATTTGAGGCTTTCTCGGTGTGCGCTACCAACGCTGA 8700
Db 8641 CATCATGCTGTGTGACAGGATTTGAGGCTTTCTCGGTGTGCGCTACCAACGCTGA 8700
QY 8701 GATCCTCAGAGTTTCCCAATCATCAAGACATGACATGACATGACATGACATGAC 8760
Db 8701 GATCCTCAGAGTTTCCCAATCATCAAGACATGACATGACATGACATGACATGAC 8760
QY 8761 AAAAGAAAGCAGGCGGTCTCCGCAAGCCCAAGAGCGTGGAGACACACGCAAAAT 8820
Db 8761 AAAAGAAAGCAGGCGGTCTCCGCAAGCCCAAGAGCGTGGAGACACACGCAAAAT 8820
QY 8821 GGCCTGCTTCTTCTGAGCATGATCTGACATGATCTGACATGATGATGATGATGATG 8880
Db 8821 GGCCTGCTTCTTCTGAGCATGATCTGACATGATCTGACATGATGATGATGATGATG 8880
QY 8881 CGTGGCTCGGTACCACTTCAATTATGATGATTTACTCCCGGAGGGGAGTGTGT 8940

